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PTO/SB/21 (09-04)

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Total Number of Pages in This Submission

| | |
|------------------------|----------------------|
| Application Number | 10/824,950 |
| Filing Date | April 15, 2004 |
| First Named Inventor | Joel Q. Xue |
| Art Unit | 3766 |
| Examiner Name | Jessica L. Reidel |
| Attorney Docket Number | 140824IT(5024-00119) |

ENCLOSURES (Check all that apply)

| | | |
|--|--|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Receipt Postcard |
| <div>Remarks</div> | | |

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

| | | | |
|--------------|--------------------------------------|----------|--------|
| Firm Name | Andrus, Scales, Starke & Sawall, LLP | | |
| Signature | | | |
| Printed name | Peter T. Holsen | | |
| Date | March 6, 2006 | Reg. No. | 54,180 |

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| Signature | | | |
| Typed or printed name | Melissa J. Cota | Date | March 6, 2006 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (10-04v2)
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FEE TRANSMITTAL for FY 2005

Effective 10/01/2004. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 180.00)

Complete if Known

| | |
|----------------------|----------------------|
| Application Number | 10/824,950 |
| Filing Date | April 15, 2004 |
| First Named Inventor | Joel Q. Xue |
| Examiner Name | Jessica L. Reidel |
| Art Unit | 3766 |
| Attorney Docket No. | 140824IT(5024-00119) |

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit Account Number: 50.2401
Deposit Account Name: GE Medical Systems-IT

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

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FEE CALCULATION

1. BASIC FILING FEE

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description | Fee Paid |
|----------------------------|----------------------------|------------------------|-----------|
| 1001 790 | 2001 395 | Utility filing fee | |
| 1002 350 | 2002 175 | Design filing fee | |
| 1003 550 | 2003 275 | Plant filing fee | |
| 1004 790 | 2004 395 | Reissue filing fee | |
| 1005 160 | 2005 80 | Provisional filing fee | |
| SUBTOTAL (1) | | | (\$ 0.00) |

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| Total Claims | -20** = | X | 0.00 |
| Independent Claims | -3** = | X | 0.00 |
| Multiple Dependent | | | |

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description |
|----------------------------|----------------------------|--|
| 1202 18 | 2202 9 | Claims in excess of 20 |
| 1201 88 | 2201 44 | Independent claims in excess of 3 |
| 1203 300 | 2203 150 | Multiple dependent claim, if not paid |
| 1204 88 | 2204 44 | ** Reissue independent claims over original patent |
| 1205 18 | 2205 9 | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$ 0.00)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description | Fee Paid |
|----------------------------|----------------------------|--|----------|
| 1051 130 | 2051 65 | Surcharge - late filing fee or oath | |
| 1052 50 | 2052 25 | Surcharge - late provisional filing fee or cover sheet | |
| 1053 130 | 1053 130 | Non-English specification | |
| 1812 2,520 | 1812 2,520 | For filing a request for ex parte reexamination | |
| 1804 920* | 1804 920* | Requesting publication of SIR prior to Examiner action | |
| 1805 1,840* | 1805 1,840* | Requesting publication of SIR after Examiner action | |
| 1251 110 | 2251 55 | Extension for reply within first month | |
| 1252 430 | 2252 215 | Extension for reply within second month | |
| 1253 980 | 2253 490 | Extension for reply within third month | |
| 1254 1,530 | 2254 765 | Extension for reply within fourth month | |
| 1255 2,080 | 2255 1,040 | Extension for reply within fifth month | |
| 1401 340 | 2401 170 | Notice of Appeal | |
| 1402 340 | 2402 170 | Filing a brief in support of an appeal | |
| 1403 300 | 2403 150 | Request for oral hearing | |
| 1451 1,510 | 1451 1,510 | Petition to institute a public use proceeding | |
| 1452 110 | 2452 55 | Petition to revive - unavoidable | |
| 1453 1,370 | 2453 685 | Petition to revive - unintentional | |
| 1501 1,370 | 2501 685 | Utility issue fee (or reissue) | |
| 1502 490 | 2502 245 | Design issue fee | |
| 1503 660 | 2503 330 | Plant issue fee | |
| 1460 130 | 1460 130 | Petitions to the Commissioner | |
| 1807 50 | 1807 50 | Processing fee under 37 CFR 1.17(q) | |
| 1806 180 | 1806 180 | Submission of Information Disclosure Stmt | 180.00 |
| 8021 40 | 8021 40 | Recording each patent assignment per property (times number of properties) | |
| 1809 790 | 2809 395 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1810 790 | 2810 395 | For each additional invention to be examined (37 CFR 1.129(b)) | |
| 1801 790 | 2801 395 | Request for Continued Examination (RCE) | |
| 1802 900 | 1802 900 | Request for expedited examination of a design application | |

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 180.00)

SUBMITTED BY

| | | | | | |
|-------------------|-----------------|-----------------------------------|---------------|-----------|--------------|
| Name (Print/Type) | Peter T. Holsen | Registration No. (Attorney/Agent) | 54,180 | Telephone | 414-271-7590 |
| Signature | | Date | March 6, 2006 | | |

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No.: 10/824,950

Applicant: Joel Q. Xue et al.

Filed: April 15, 2004

Title: Method and Apparatus For
Analysis Of Non-Invasive
Cardiac Parameters

TC/A.U.: 3766

Examiner: Jessica L. Reidel

Docket No.: IT140824(5024-00119)



CERTIFICATE OF MAILING

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Melissa J. Cota
Melissa J. Cota Date 03/06/2006

INFORMATION DISCLOSURE STATEMENTUNDER 37 CFR §1.97(c)

Mail Stop: Amendment
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Alexandria, VA 22313-1450

Sir:

Enclosed is a PTO Form 1449 as well as a copy of the each of the non-U.S. patent references cited therein.

The references are being submitted in accordance with 37 CFR 1.97(c). the requisite fee of \$180.00 is attached hereto.

The Commissioner is hereby authorized to charge the requisite fee of \$180.00 and any additional fees in connection herewith to Deposit Account No. 50.2401. A duplicate copy hereof is enclosed.

It is respectfully submitted that all requirements have been fulfilled for consideration of this Information Disclosure Statement, and such action is earnestly solicited. The Examiner is invited to contact Applicant's undersigned attorney with any

03/10/2006 WARDELRI 00000023 502401 10824950


01 FC:1806 180.00 DA

Application No. 10/824,950
Attorney Docket No. 140824IT(5024-00119)

questions or comments, or otherwise to facilitate prosecution. The Examiner is invited to contact Applicant's undersigned attorney with any questions or comments, or otherwise to facilitate prosecution.

Respectfully submitted,

ANDRUS, SCEALES, STARKE & SAWALL, LLP



Peter T. Holsen
Reg. No. 54,180

Andrus, Sceales, Starke & Sawall, LLP
100 East Wisconsin Avenue
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(414) 271-7590
Attorney Docket No: 155745(5024-00174)

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Substitute of form 1449/PTO

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INFORMATION DISCLOSURE STATEMENT BY
APPLICANT

| | |
|------------------------|-----------------------|
| Application Number | 10/824,950 |
| Filing Date | April 15, 2004 |
| First Name Inventor | Joel Q. Xue, et al. |
| Group Art Unit | 3766 |
| Examiner Name | Jessica L. Reidel |
| Attorney Docket Number | 140824 IT(5024-00119) |

(use as many sheets as necessary)

Sheet 1 of 6

U.S. PATENT DOCUMENTS

| Examiner Initials | U.S. Patent Document Number | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document |
|----------------------|-----------------------------|--|--|
| | | | |
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| | 4,519,395 | Hrushesky | 5/28/1985 |
| | 4,583,553 | Shah et al. | 4/22/1986 |

| | | | |
|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | Application Number | 10/824,950 |
| | | Filing Date | April 15, 2004 |
| | | First Name Inventor | Joel Q. Xue, et al. |
| | | Group Art Unit | 3766 |
| | | Examiner Name | Jessical. Reidel |
| (use as many sheets as necessary) | | Attorney Docket Number | 140824IT (5024-119) |
| Sheet | 2 | of | 6 |

| U.S. PATENT DOCUMENTS | | | | |
|-----------------------|--|-----------------------------|---|---------------------------------------|
| Examiner Initials | | U.S. Patent Document Number | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document |
| | | 4,589,420 | Adams et al. | 5/20/1986 |
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| | | 4,974,162 | Siegel et al. | 11/27/1990 |
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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | Application Number | 10/824,950 |
| | Filing Date | April 15, 2004 |
| | First Name Inventor | Joel Q. Xue, et al. |
| | Group Art Unit | 3766 |
| | Examiner Name | Jessica L. Reidel |
| Sheet 3 of 6 | Attorney Docket Number | 140824 IT (5024-00119) |

U.S. PATENT DOCUMENTS

| Examiner Initials | U.S. Patent Document Number | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document |
|-------------------|-----------------------------|---|---------------------------------------|
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| | 5,423,878 | Franz | 6/13/1995 |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
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APPLICANT***(use as many sheets as necessary)*

Sheet

4

of

6

Application Number**10/824,950****Filing Date****April 15, 2004****First Name Inventor****Joel Q. Xue, et al.****Group Art Unit****3766****Examiner Name****Jessica L. Reidel****Attorney Docket Number****140824IT(5024-00119)****U.S. PATENT DOCUMENTS**

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|----------------------|-----------------------------|---|---------------------------------------|
| | 5,437,285 | Verrier et al. | 8/1/1995 |
| | 5,570,696 | Arnold et al. | 11/5/1996 |
| | 5,570,696 | Arnold et al. | 11/5/1996 |
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| | 6,169,919 | Nearing et al. | 1/2/2001 |

FOREIGN PATENT DOCUMENTS

| Examiner Initials | Country Code | Foreign Patent Document Number | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document | Translation | English Abstract |
|----------------------|-----------------|-----------------------------------|--|--|-------------|---------------------|
| | DE | 2604460 | Michael S. Lampadius | 8/11/1977 | | |
| | DE | 3303104 | Belorussky Nauchno-Issledovatsky Institut Kardiologii | 8/2/1984 | | |
| | DE | 4024360 | Transformatoren und Rontgenwerk GmbH | 3/21/1991 | | |
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| | FR | 2539978 | Belorussky Nauchno-Issledovatsky Institut Kardiologii | 8/3/1984 | | |
| | UK | 2070871 | Anderson et al. | 9/9/1981 | | |
| | WO | WO81/02832 | Datamedix, Inc. | 10/15/1981 | | |
| | | | | | | |

| | | | |
|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
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| | | Group Art Unit | 3766 |
| | | Examiner Name | Jessica L. Reidel |
| <i>(use as many sheets as necessary)</i> | | Attorney Docket Number | 140824IT (5024-00119) |
| Sheet | 5 | of | 6 |

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

| Examiner Initials | | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published. |
|-------------------|--|---|
| | | SPERANZA et al., 'Beat-to-beat measurement and analysis of the R-T interval in 24 h ECG Holter recordings,' Med and Biol Eng & Comput, 1993, 31, pp. 487-494. |
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| | | MAKAROV et al., 'Holter monitoring in the long QT syndrome of children and adolescents,' Cor Vasa, 1990, 32(6), pp. 474-483. |
| | | NAVARRO-LOPEZ et al., 'Isolated T wave alternans elicited by hypocalcemia in dogs,' Electrocardiology, 1978, 11(2), pp. 103-108. |
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| | | WEINTRAUB et al., 'The congenital long QT syndromes in childhood,' Journal of the American College of Cardiology, September 1990, 16(3), pp. 674-680. |
| | | BIBLER et al., 'Recurrent ventricular tachycardia due to pentamidine-induced cardiotoxicity,' Chest, December 1988, 94(6), pp. 1303-1306. |
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| | | STROOBANDT et al., 'Simultaneous recording of atrial and ventricular monophasic action potentials: monophasic action potential duration during atrial pacing, ventricular pacing, and ventricular fibrillation,' Pace, July-August 1985, 8, pp. 502-511. |
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| | | NAVARRO-LOPEZ et al., 'Isolated T wave alternans,' American Heart Journal, 1978, pp. 369-374. |
| | | MITSUTAKE et al., 'Usefulness of the Valsalva Maneuver in management of the long QT syndrome,' Circulation, 1981, 63(5), pp. 1029-1035. |

| | | | |
|--------------------|--|-----------------|--|
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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | Application Number | 10/824,950 | | |
| | | Filing Date | April 15, 2004 | | |
| | | First Name Inventor | Joel Q. Xue, et al. | | |
| | | Group Art Unit | 3766 | | |
| | | Examiner Name | Jessica L. Reidel | | |
| Sheet | 6 | of | 6 | Attorney Docket Number | 140824IT.. (5025-00119) |

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| Examiner Initials | | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published. |
|-------------------|--|---|
| | | NEARING et al., 'Personal computer system for tracking cardiac vulnerability by complex demodulation of the T wave,' American Physiological Society, 1993, pp. 2606-2612. |
| | | JOYAL et al., 'ST-segment alternans during percutaneous transluminal coronary angioplasty,' Division of Cardiology, Department of Medicine, University of Florida and the Veterans Administration Medical Center, June 1984, pp. 915-916. |
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| | | TURITTO et al., 'Alternans of the ST segment in variant angina,' Chest, March 1988, 93(3), pp. 587-591. |
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